

Direct-Pure[®] UP

Produces ultrapure and reverse osmosis (RO) water from tap water directly

Quality of ultrapure water meets or exceeds ASTM, CLSI, CAP, and ISO Type I water standards.
The system is CE and RoSH certified.

Features

- The fully automated control system contains pre-rinse, RO membrane fouling preventing flush, RO membrane and cartridge life monitoring as well as many other programs for convenient operation.
- The pre-rinsing program starts automatically once a new RO membrane is installed so there is no need for user to set additional cleaning procedures.
- Two sets of dual-column purification cartridges work sequentially to ensure thorough removal of ions and organics in water.
- Automatic hourly system recirculation prevents bacteria growth.
- Resistivity is measured by a highly sensitive resistivity sensor.
- Electrical and water compartments are completely segregated, thus safer to operate.
- User can set water dispensing time for easy water collection.
- Both RO and ultrapure water can be dispensed from the water system.
- The system can be fit with a 30 or 60-liter PE tank with a liquid level sensor and a tank vent filter with CO₂ scavenger to preserve pure water from the air contamination.
- A 0.2 µm final filter or ultrafiltration filter (optional) removes final contaminants.
- Rephile can provide full document support to meet users' GMP, GLP, FDA, and other certification requirements.



*Two-in-one Integrated System
Easy Maintenance & Cost-effective*

Specifications

Direct-Pure UP	
Feed Water Requirements	
Tap water	Municipal water, TDS <1000 ppm (2000 µS/cm)
Operating temperature	5 - 45 °C
Feed water pressure	15 - 90 psi (1 - 6 bar)
Product Water Flow Rate	
RO water (@ 25°C)	10, 15, 20, 30, 50 L/hr
Ultrapure water (Type I) (@ 25°C)	1.5 L/min
Product Water Quality	
RO water conductivity*	Typically < 20 µS/cm
Ultrapure water resistivity (@ 25°C)	18.2 MΩ · cm
TOC*	< 10 ppb (< 5 ppb with a dual wavelength UV lamp)
Particles in ultrapure water (> 0.2 µm)	< 1/ml (with a 0.2 µm final filter or terminal ultrafiltration cartridge)
Microorganisms	< 0.1 cfu/ml (with a 0.2 µm final filter or terminal ultrafiltration cartridge)
Pyrogens (endotoxins)	< 0.001 Eu/ml (with a terminal ultrafiltration cartridge)
Dimensions	
Main System Length x Depth x Height	30 cm × 51 cm × 48 cm
Dispenser diameter x Height	22 cm × 74 cm

* Product water quality may vary due to local feed water conditions.

Introduction of Independent Ultrapure Water Dispenser



- The remote dispenser has a built-in high precision resistivity sensor with cell constant of 0.01 cm⁻¹ to measure the quality of ultrapure water just prior to the dispensing point.
- Volumetric dispensing and calibration.
- The handle is 360 degree-rotatable and detachable from its support for effortless and instant dispensing with maximum flexibility.

Main Applications

Ultrapure and RO pure water can be used in many areas. Here are some typical applications

With Ultrapure Water

- HPLC mobile phase preparation
- Preparation of reagent blank solutions
- As sample diluent for GC, HPLC, AA, ICP-MS and other analytical techniques
- Preparation of buffers and culture media for mammalian cell culture
- Preparation of molecular biology reagents, etc.

With RO Water

- Glassware cleaning
- Washing machine for glassware
- Water bath water
- Autoclave
- Feed water for laboratory animals

Ordering Information

Description	Catalogue Number
Direct-Pure Water System, UP 10	RD0P0100E
Direct-Pure Water System, UP 15	RD0P0150E
Direct-Pure Water System, UP 20	RD0P0200E
Direct-Pure Water System, UP 30	RD0P0300E
Direct-Pure Water System, UP 50	RD0P0500E
Direct-Pure Water System, UP 10 UV	RD0P010UE
Direct-Pure Water System, UP 15 UV	RD0P015UE
Direct-Pure Water System, UP 20 UV	RD0P020UE
Direct-Pure Water System, UP 30 UV	RD0P030UE
Direct-Pure Water System, UP 50 UV	RD0P050UE
Direct-Pure Water System, UP 10 UV, with dispenser	RD0PP10UE
Direct-Pure Water System, UP 15 UV, with dispenser	RD0PP15UE
Direct-Pure Water System, UP 20 UV, with dispenser	RD0PP20UE
Direct-Pure Water System, UP 30 UV, with dispenser	RD0PP30UE
Direct-Pure Water System, UP 50 UV, with dispenser	RD0PP50UE
Consumables	Catalogue Number
RephiDuo H Pack Cartridge	RR300Q201
RephiDuo U Pack Cartridge	RR600Q201
RephiDuo U Pack Cartridge with a 0.2 µm PES Capsule Filter	RR600Q2KT
RephiDuo U Pack Cartridge (Low TOC)	RR600Q301
RephiDuo U Pack Cartridge with a 0.2 µm PES Capsule Filter (Low TOC)	RR600Q3KT
185/254 nm Dual-wavelength UV Lamp	RAUV357B1
Reverse Osmosis Membrane with housing, for UP 10 / 20	RAR0100HG
Reverse Osmosis Membrane with housing, for UP 15 / 30	RAR0015HG
Reverse Osmosis Membrane with housing, for UP 50	RAR0B50HG
30-liter PE Tank	RATANK030
60-liter PE Tank	RATANK060
Tank Sanitization Module	RAPRC0106
Tank Vent Filter	RATANKVN1
POU	RSP0U000S
Leak Protector with Auto Water Shutoff Valve	RAPRC0111
RephiTEKT Prefiltration System	RW50211KT
RephiDuo Pre Filter Cartridge Pack	LAB02CP04
Prefiltration Kit (10", 3-stage)	RW10311KT
Polypropylene Depth Filter, 10 Inches 1 µm, 12/Pk	LABPA0112
Polypropylene Depth Filter, 10 Inches 10 µm, 12/Pk	LABPA1012
Activated Carbon Cartridge, 10 Inches, 12/Pk	LABAC1012
Softening Cartridge, 10 Inches, 12/Pk	LABAT1012

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Rephile Bioscience, Ltd.

Toll Free: +1-855-Rephile (+1-855-737-4453)

E-mail: info@rephile.com

System Setup



Pre-filtration Kit



Direct-Pure UP



PE Water Reservoir



RephiDuo Cartridges

Optional Accessories

- Water Softener
- Tank Sanitization Module
- Leak Protector